

Applicant: Katayama

Title: KNOCKING AVOIDANCE CONTROL SYSTEM OF A FOUR-

STROKE ENGINE FOR AN OUTBOARD MOTOR

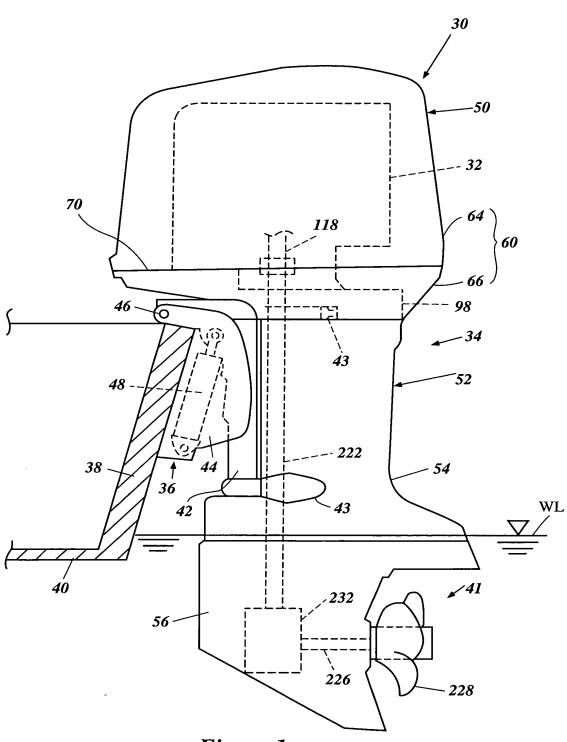
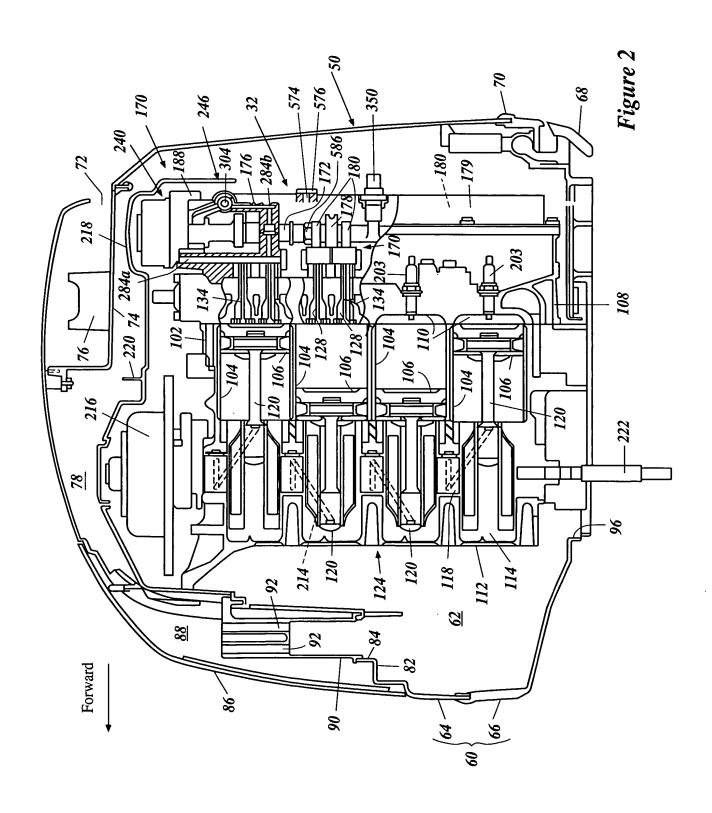


Figure 1



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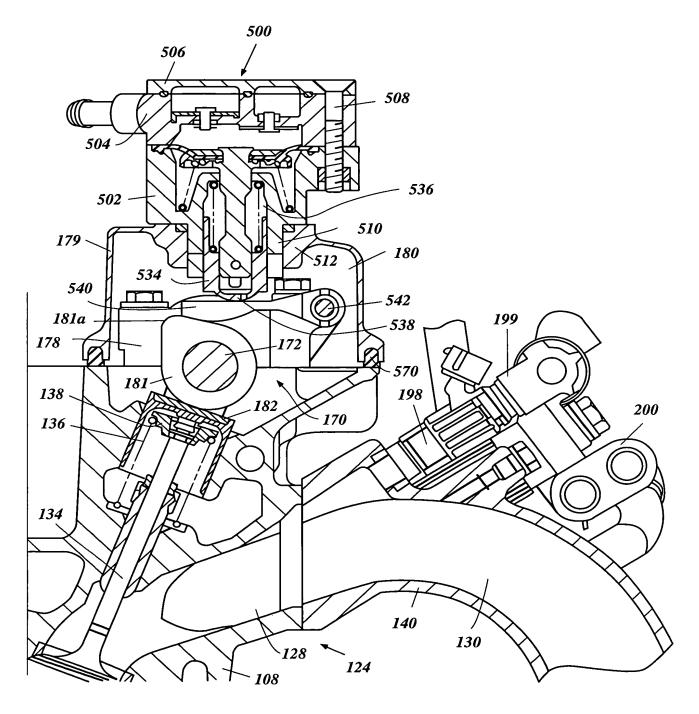


Figure 3



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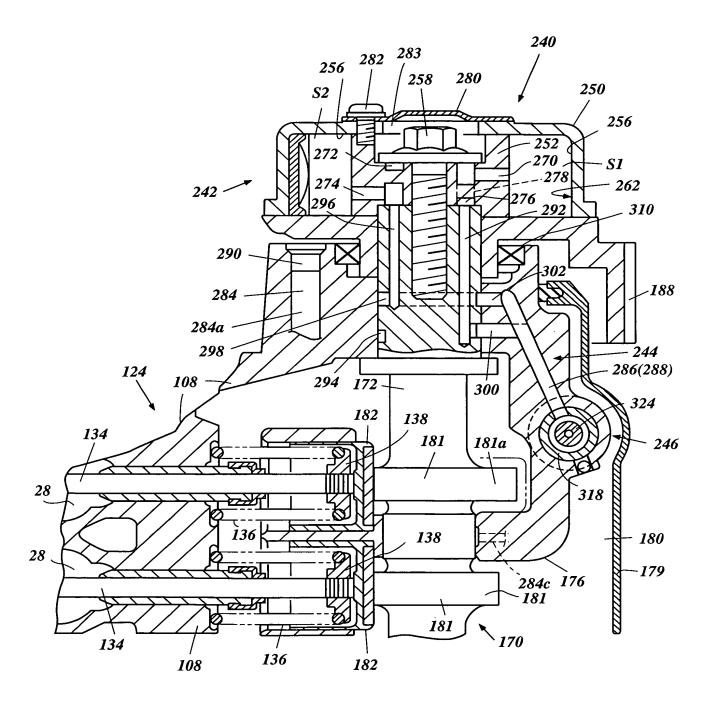


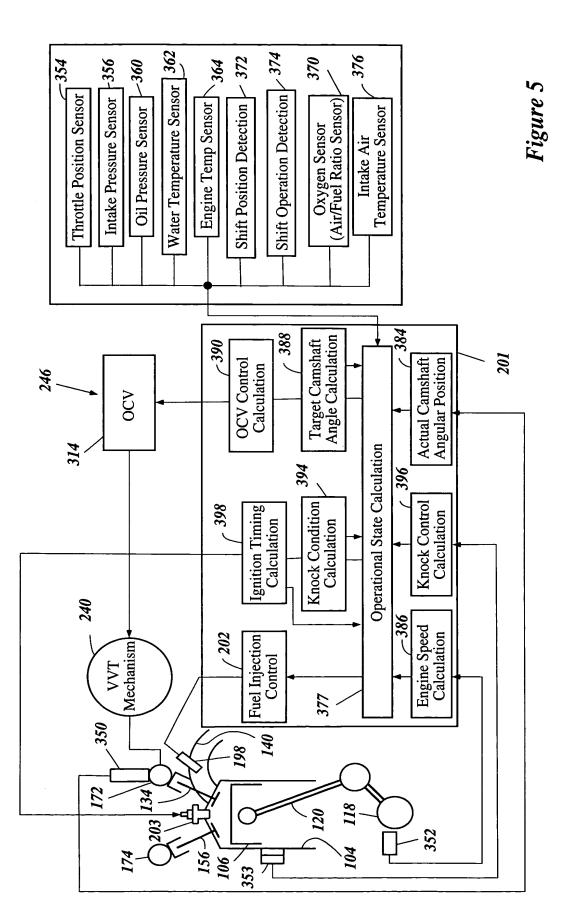
Figure 4



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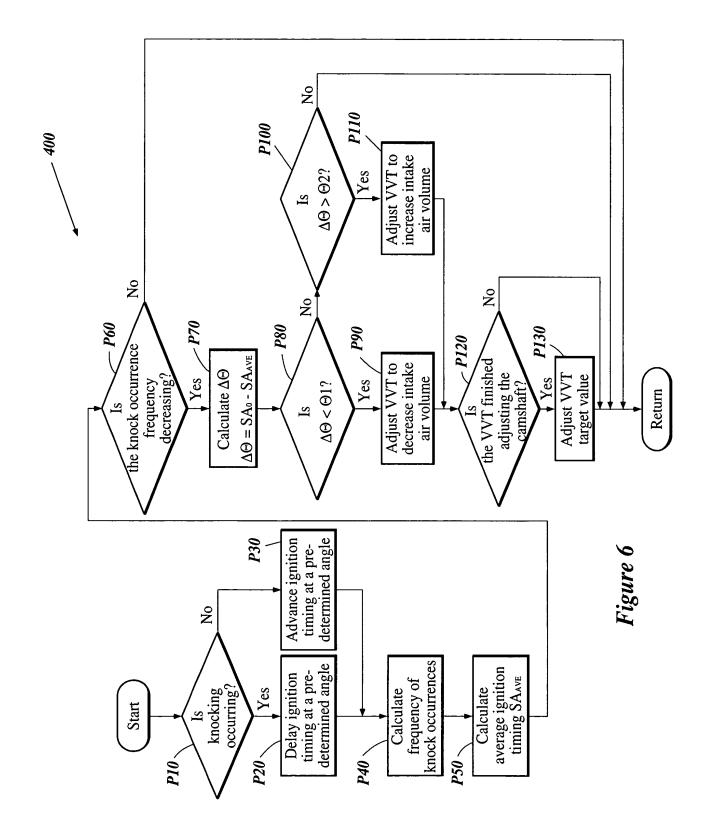




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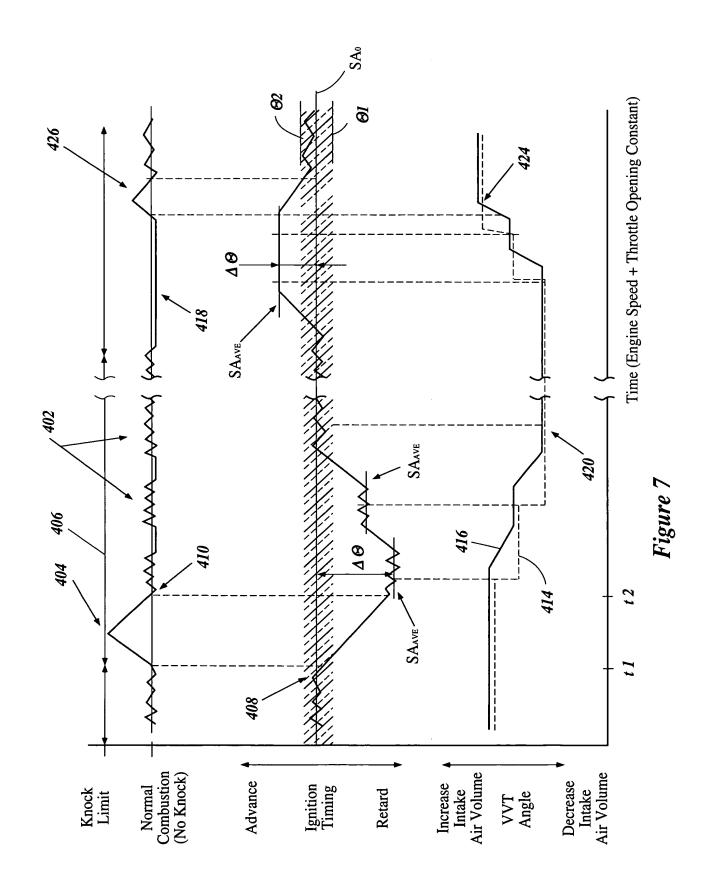
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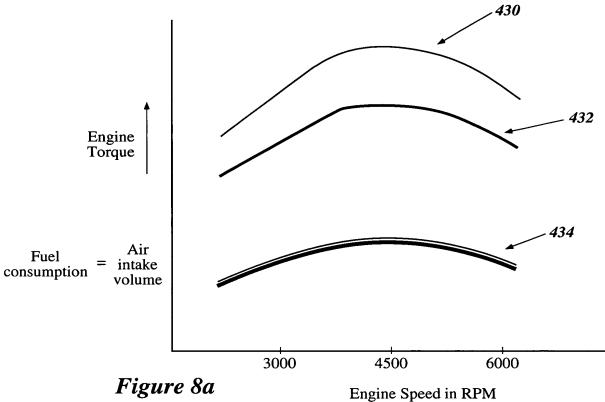




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Engine Torque

Fuel consumption = Air intake volume

442

Fuel consumption

3000 4500 6000

Figure 8b

Engine Speed in RPM



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